

Method for Extending the Crankback Procedure to any Asynchronous Transfer Mode System

Abstract

1 Method for extending the crankback procedure in an Asynchronous Transfer Mode (ATM)
system composed of at least a first data network (10) comprising a plurality of switching nodes
interconnected by connection lines and including end switching nodes each being connected to at
least a Data Transmission equipment (DTE) and being used either as an entry border node (22)
when it is connected to a source DTE (18) or an exit border node (28) when it is connected to a
destination DTE (20), the network using a routing protocol of the type wherein a best route
between a source DTE and a destination DTE is determined in a control point associated with the
entry border node to which is connected the source DTE and wherein a set-up message is sent by
the entry border node, and a second data network (12) including at least one DTE to be used as
destination DTE in an exchange of data with a source DTE connected to the first data network
and being interconnected with the first data network by means of at least two links (14, 16) not
supporting the routing protocol. Such a method consists, when the exit border node of the first
data network receives a clearing message on one link indicating that the set-up message has been
rejected because the best route is blocked anywhere in the second data network, in building a
crankback information element to be added to the clearing message for enabling the entry border
node to find an alternate route avoiding the portion of the route which is blocked.

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